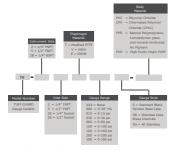
How To Order



Example Part Number: TG-25T060S-PVC

Tuff Guard Gauge Isolator with 1/4" Female NPT Outlet, 1/2" Female NPT Inlet, Convoluted Modified PTFE Diaphragm, v/ 2.5" Diameter 0-60 PSI Standard Black Painted Steel Case

- votes:
 Dual Scale & Compound Dials Available
 Gauge Specifications Available
 Pressure Switch & Transducer Assemblies Available
 Process Gauge Assembly Available

Please call Factory for further Ordering Info. Toll Free: (866) 452-2349

Pressure/Temperature Range

WORKING PRESSURES PSI	PRESS	URES	PSI								>	WEIGHTS
Material	10°C 50°F	10°C 20°C 50°F 68°F	30°C 86°F	40°C 104°F	50°C 122°F	60°C 140°F	70°C 158°F	30°C 40°C 50°C 60°C 70°C 80°C 90°C 100°C 120°C , 86°F 104°F 122°F 140°F 158°F 176°F 194°F 212°F 248°F	90°C 194°F	100°C 212°F	120°C 248°F	Net Weights Pounds*
PVC	200	250	250	220	140	135	-	ı	ı	1	ı	0.33
CPVC	230	250	250	230	200	200	150	120	09	ı	ı	0.36
dd	200	240	240	210	145	125	7.5	09	1	ı	1	0.31
PVDF	240	250	250	250	250	230	220	200	160	140	80	0.39
Temperature Ranges; PVC; 14 to 140°F (10 to 60°C), CPVC; 50 to 194 F*(10 to 90°C), PP: 46 to 170°F (8 to 80°C), PVPF: -22 to 246°F (-30 to 120°C), * Weights are for unfilled 1/4" x 1/2" without gauges.	Ranges 248°F (30 to 120	4 to 140*	F (10 to chights are	SO*C), CF	VC: 50 t	o 194 F*(10 to 90% hout gaug	C), PP:	46 to 176	FF (8 to 8	0*C),



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www.GaugeGuards.com





TUFF GUARD **GAUGE ISOLATORS**

ATTENTION:

UPPER CHAMBER FILLING REQUIRED

If unit has been purchased w/out an instrument

Installation procedure and parts list

The Diaphragm

The Diaphragm

Your Marquest Gauge Isolator is supplied with a modified PTFE, Vitono, or EPDM Diaphragm.

The diaphragm provides the Isolation of the process media from the pressure sensing instruments. Should it become necessary to replace the diaphragm, the following procedure should be used as depicted by the diaphragm material When using Vitono or EPDM diaphragms, simply unscrew the chambers from each other. The dipahragm may then be removed and its replacement set into position. Screw the two chambers together so that the diaphragm seals in the sealing grooves provided by the two chambers. It may be necessary to wrench tiphten a quarter turn after firmly tightening by hand. When replacing a modified PTE diaphragm, wrenches are required as additional torque is necessary to unseal and reseal the diaphragm. Please contact factory for further instruction.

Chemical Resistance Data

Chemical Resistance Data

Chemical resistance data is not provided by Marquest Scientific due to the complex potential of combinations, concentrations, temperature and degree of safety factors

A specific inquiry to Marquest providing complete serv data and service requirements will provide you with opinion as to suitability. Marquest cannot gaurantee suitability for any service.

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Please... read these instructions...

The Marquest Gauge Isolator is designed to isolate and The Marquest Gauge Isolator is designed to isolate and protect pressure sensing instruments from process media. This is accomplished by the impermeable diaphragm. The instrument side of the gauge isolator is filled with a compatible liquid that will transmit the pressure of the processing system to the instrument. The inherent volumetric and sensing area design features allow an accurate transmittal of pressure.

INSTALLATION
Installation of the Marquest Gauge Isolator, when purchased with a gauge, is performed by simply connecting it to the processing system with a 1/4" or 1/2" NPT plastic ripple. PTFE tape is recommended as a thread sealant. Pipe dope, not specifically recommended for plastic pipe by the manufacturer, should not be used. A firm hand tight torque is normally sufficient for small plastic pipe threads; over-tightening may deform threads and could cause leaking.

Installation of the Marquest Gauge Isolator, when purchased without a gauge is accomplished in the following manner:

1. Fill the upper chamber of the Gauge Isolator with a compatible liquid by pouring the fill liquid through the instrument outlet orifice. The spherical design of the chamber will allow the air to evacuate the chamber, providing the orifice is not bridged by the fill liquid.

The chamber shall be considered full when the liquid level

The chamber shall be considered full when the liquid level reaches the mid-point of the thread.

2. The gauge or instrument may be filled in the same manner, although a small probing device may be necessary to evacuate the trapped air. For certain applications where a high degree of accuracy is imperative, the instrument should be filled on a vacuum manifold device.

3. The standard orifices on most gauge are such that the fill liquid will be retained when the orifice is faced down and in poiston to thread into the Gauge Isolator. PTE tape is recommended as the thread sealant. Hand tighten instrument to Gauge Isolator.

NOTE: Air left in the chamber or instrument may cause some loss in accuracy of the instrument reading. However, the internal design features of the Gauge Isolator will tolerate some void of fill liquid. Proper filling becomes more critical when greater displacement volume instruments or systems are to be isolated. Improper filling can cause damage or distortion to the diaphragm causing potential leakage. Consulting the factory on proper filling of these greater displacement applications is recommended.

4. Connect to the processing system using a 1/4" or 1/2" NTP plastic nipple using PTFE tape as the recommended thread sealant.

thread sealant. The standard gauge (S) furnished with the Gauge Isolator, when ordered as such , is 2.5" diameter, lower mount. The case and ring are drawn steel, black corrosion resistant painted. Windows are flat glass. Dial is steel; white background with black markings. Movement is brass. Bourdon tube is phosphor bronze except in vacuum and 15 psi type where beryllium copper is used as the tube material.

Dimensions

